



14230 U.S. PTO
112103

UTILITY APPLICATION

Attorney Docket No.: NIH214.001C1

First Named Inventor: Stephen S. Whitehead

Title: **DEVELOPMENT OF MUTATIONS USEFUL FOR
ATTENUATING DENGUE VIRUSES AND CHIMERIC
DENGUE VIRUSES**

Express Mail Label No.: EV 309082606 US

31281 U.S. PTO
10/719547
112103



Direct all correspondence to Customer No.: 20995

Date: November 21, 2003

Page 1 of 2

Mail Stop Patent Application

United States Patent and Trademark Office

PO Box 1450

Alexandria, VA 22313-1450

The following enclosures are transmitted herewith to be filed in the patent application of:

Inventor(s):

1. Stephen S. Whitehead
2. Brian R. Murphy
3. Kathryn A. Hanley
4. Joseph E. Blaney, Jr.

APPLICATION ELEMENTS:

- (X) Specification in 158 pages.
- (X) Drawings in 12 sheets.
- (X) Sequence Submission Statement in 1 page, and
 - (X) Sequence Listing on paper in 72 pages.
- (X) Sequence Listing in CRF.

CONTINUITY INFORMATION:

Application	Relationship	Parent App. No.	Filing Date	Status
This Application	Continuation	PCT/US02/16308	5/22/02	Pending
PCT/US02/16308	Benefit of priority	60/293,049	5/22/01	Expired

- (X) Incorporation by Reference. The entire disclosure of the prior application(s) is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

OTHER APPLICATION PARTS:

- (X) Return prepaid postcard.


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FILING FEES:

FEE CALCULATION				
FEE TYPE		FEE CODE	CALCULATION	TOTAL
Basic Utility		1001 (\$770)		\$770
Non-English Spec.		1053 (\$130)		\$0
Recordation Fee		8021 (\$40)	0 x 40 =	\$0
Excess Claims > 20	215 - 20 = 195	1202 (\$18)	195 x 18 =	\$3510
Independent > 3	4 - 3 = 1	1201 (\$86)	1 x 86 =	\$86
Multiple Claim		1203 (\$290)		\$290
			TOTAL FEE DUE	\$4656

(X) A check in the amount of **\$4656** to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.



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MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Attorney Docket No. : NIH214.001C1

Applicant(s) : Whitehead et al.

For : DEVELOPMENT OF MUTATIONS USEFUL
FOR ATTENUATING DENGUE VIRUSES
AND CHIMERIC DENGUE VIRUSES

Attorney : Nancy W. Vensko


"Express Mail"
Mailing Label No. : EV 309082606 US

Date of Deposit : November 21, 2003

I hereby certify that the accompanying

Transmittal letter; specification in 158 pages; 12 sheets of drawings; Sequence
Submission Statement; Sequence Listing on diskette; paper copy of Sequence
Listing in 72 pages; Check for Filing Fee; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to
Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Nelson Merida

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